W. Degen

PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/08/676,125A

1805

DATE: 01/14/98 TIME: 11:52;50

INPUT SET: S22580.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1	SEQUENCE LISTING ENTERED
. 2	
3	(1) General Information:
4	
5	(i) APPLICANT: MARKLAND, William
6	LADNER, Robert Charles
7	(ii) mimir or invendion. Valitypein invidintno hyming powatni prometno and an
8 9	(ii) TITLE OF INVENTION: KALLIKREIN-INHIBITING "KUNITZ DOMAIN" PROTEINS AND ANA
10	(iii) NUMBER OF SEQUENCES: 70
11	(III) NONDER OF BEGOINGED. /V
12	(iv) CORRESPONDENCE ADDRESS:
13	(A) ADDRESSEE: Yankwich & Associates
14	(B) STREET: 130 Bishop Allen Drive, fifth floor
15	(C) CITY: Cambridge
16	(D) STATE: Massachusetts
17	(E) COUNTRY: United States of America
18	(F) ZIP: 02139
19	
20	(V) COMPUTER READABLE FORM:
21	(A) MEDIUM TYPE: floppy disk
22	(B) COMPUTER: IBM PC compatible
23 24	(C) OPERATING SYSTEM: PC-DOS/MS-DOS
24 25	(D) SOFTWARE: Word for Windows 6.1
26	(vi) CURRENT APPLICATION DATA:
27	(A) APPLICATION NUMBER: 08/676,125
28	(B) FILING DATE: 25 September 1996
29	(C) CLASSIFICATION:
30	
31	(vii) PRIOR APPLICATION DATA:
32	(A) APPLICATION NUMBER: PCT/US95/00299
33	(B) FILING DATE: 11 January 1995
34	
35	(vii) PRIOR APPLICATION DATA:
36	(A) APPLICATION NUMBER: 08/179,964
37	(B) FILING DATE: 11 January 1994
38 39	(i) DDTOD ADDITORMTON DAMA.
40	(VII) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 08/208,264
41	(B) FILING DATE: 10 March 1994
42	(b) Fibing Daib. To March 1994
43	(viii) ATTORNEY/AGENT INFORMATION:
44	(A) NAME: YANKWICH, Leon R.
45	(B) REGISTRATION NUMBER: 30,237
46	(C) REFERENCE/DOCKET NUMBER: DYX-006.2P US
	• •

RAW SEQUENCE LISTING PATENT APPLICATION US/08/676,125A

DATE: 01/14/98 TIME: 11:52:54

```
47
48
         (ix) TELECOMMUNICATION INFORMATION:
49
               (A) TELEPHONE: (617) 491-4343
50
               (B) TELEFAX: (617) 491-8801
51
52
53
       (2) INFORMATION FOR SEQ ID NO:1:
54
55
        (i) SEQUENCE CHARACTERISTICS:
56
              (A) LENGTH:8 amino acids
57
              (B) TYPE: amino acid
58
              (C) STRANDEDNESS: single
59
              (D) TOPOLOGY: linear
60
61
      (ii) MOLECULE TYPE: protein
62
63
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
64
    Ile Val Gly Gly Thr Asn Ser Ser
65
66
67
68.
    (2) INFORMATION FOR SEQ ID NO:2:
69
          (i) SEQUENCE CHARACTERISTICS:
70
71
              (A) LENGTH:58 amino acids
72
              (B) TYPE: amino acid
73
              (C) STRANDEDNESS: single
74
              (D) TOPOLOGY: linear
75
76
        (ii) MOLECULE TYPE: protein
77
78
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
79
80
   Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala
81
                                           10
82
83
    Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
84
                  20
85
86
    Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala
87
88
89
    Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
90
          50
91
    (2) INFORMATION FOR SEQ ID NO:3:
92
93
94
          (i) SEQUENCE CHARACTERISTICS:
95
              (A) LENGTH:58 amino acids
96
              (B) TYPE: amino acid
97
              (C) STRANDEDNESS: single
98
              (D) TOPOLOGY: linear
99
```

RAW SEQUENCE LISTING PATENT APPLICATION US/08/676,125A

DATE: 01/14/98 TIME: 11:52:58

														AL.	VEUL	DEI.
100		(ii) MOI	LECU	LE T	YPE:	pro	tein								
101		4 4		~******	an n	acan.			700	- D N						
102 103		(XI) SE(SOEM	CE DI	ESCR.	IPTI	JN: :	SEQ .	א עם):3:					
103	Mot	uie	Ser	Dha	Cure	λla	Dha	T. 17 C	ala	λan	λen	G] v	Dro	Cue	Lve	λla
105	1	1113	261	rne	Cy5	ATO	FILE	цуз	AIG	10	ASP	GLY	FIU	Cys	15	ATG
106	•				•									,		
107	Ile	Met	Lvs	Ara	Phe	Phe	Phe	Asn	Ile	Phe	Thr	Ara	Gln	Cvs	Glu	Glu
108				20					25					30		
109																
110	Phe	Ile	Tyr	Gly	Gly	Cys	Glu	Gly	Asn	Gln	Asn	Arg	Phe	Glu	Ser	Leu
111			35					40					45			
112																
113	Glu		Cys	Lys	Lys	Met	Cys	Thr	Arg	Asp						
114		50					55									
115						~=~										
116	(2)	INFORMATION FOR SEQ ID NO:4: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids														
117 118																
119									Lus							
120		(B) TYPE: amino acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear														
121																
122			(-	,	. 020											
123		(ii) MOI	LECUI	LE T	YPE:	prof	tein								
124		•					•									
125																
126		(xi) SE(QUEN	CE DI	ESCR	[PTI	: NC	SEQ 1	ED NO	0:4:					
127																
128	Met	His	Ser	Phe	Cys	Ala	Phe	Lys	Ala	Asp	Asp	Gly	His	Cys	Lys	Ala
129	1				5					10					15	
130				_				_						_		
131	Asn	His	GIn	_	Phe	Phe	Phe	Asn		Phe	Thr	Arg	GIN	_	GLu	Glu
132 133				20					25					30		
133	Dho	C0.2	m	<u>ما</u>	a1	Crrc	a1	al) CD	aln.	N c n	7 ~~	Dho	611	C0.	Leu
134	Pile	Ser	35	GTÅ	GLY	Cys	сту	40	ASII	GIII	ASII	ALG	45	GIU	Ser	Leu
136			33					70								
137	Glu	Glu	Cys	Lvs	Lvs	Met	Cvs	Thr	Ara	Asp						
138		50	-1-	-1-	-1-		55		5							
139																
140	(2)	INF	ORMAT	rion	FOR	SEQ	ID I	NO:5	:							
141		(i) SE(QUEN	CE CI	HARA	CTER	ISTI	cs:							
142			(A)	LE1	NGTH	:58 8	amino	ac:	ids							
143					PE: 8											
144								sing	Le							
145			(D)	TOI	POLO	3Y: .	linea	ar								
146																
147		(ii) MOI	LECUI	LE T	YPE:	pro	tein								
148																
149		1 == =		\		300r.	r nur r	337 - <i>1</i>	7EC 7	TD 374).F.					
150		(X1) SE(SORN(JE DI	SOUR.	rb.l.T(: אכ	PEQ .	TN N():5:					
151 152	Wo+	ui-	Ser	Dha	C110	אן ה	Dha	Lvc	λla	Yer	y e.z.	ربان سان	uic	Cve	Lvc	λl =
174	Mer	1112	Set	FIIG	Cys	ATG	LIIG	пуз	лта	rob	rob	сту	1113	Cys	пуз	VT a

RAW SEQUENCE LISTING PATENT APPLICATION US/08/676,125A

DATE: 01/14/98 TIME: 11:53:01

														IN	<i>IPUT</i>	SET: S225
153	1				5					10					15	
154					_	_	_		_	_	_					
155	Ser	Leu	Pro	Arg	Phe	Phe	Phe	Asn		Phe	Thr	Arg	Gln	-	Glu	Glu
156				20					25					30		
157			_	_=		_			_		_	_				_
158	Phe	Ile	_	Gly	СТÄ	Cys	GLu	_	Asn	GIn	Asn	Arg		GLu	Ser	Leu
159			35					40					45			
160			_	_	_		_		_	_						
161	Glu		Cys	Lys	Lys	Met	-	Thr	Arg	Asp						
162		50					55					•				
163																
164	(2)			TION		_										
165		(1	•	QUEN												
166) LEI					las							
167		(B) TYPE: amino acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear														
168																
169			(D) TOI	POLO	3Y: .	Linea	ar								
170																
171		(11) MO	LECUI	LE T	YPE:	pro	tein								
172																
173		4 4							~=~ :							
174		(X1) SE	QUEN	CE DI	ESCR.	LPTIC	ON: :	SEQ .	TD M):6:					
175 176	Wa+	w	C	Dha	a	37.	Dho	T		1	3 ~~	a1	Dwa	a	T	37.0
177	met 1	пта	Ser	Phe	Cys 5	ATG	Pne	гåг	ATG	_	Asp	СТА	PIO	Cys	-	Ата
178	_				3					10					15	
179	λen	Hie	T.611	Arg	Dhe	Dhe	Dhe	Acn	Tla	Dho	Thr	λτα	Gl n	Cve	G] 11	g] u
180	ASII	1113	пеа	20	File	FIIC	rne	ADII	25	FIIC	1111	Arg	GIII	30	GIU	GIU
181				20					23					30		
182	Phe	Sor	Tur	Gly	Gl v	Cve	G] v	al v	Asn	al n	Agn	Δτα	Dha	Glu	Ser	T.611
183	1110	501	35	0_1	013	0,5	0-1	40	41011	01	<i></i>	9	45	014	501	Leu
184																
185	Glu	Glu	Cvs	Lys	Lvs	Met	Cvs	Thr	Ara	Asp						
186		50	- 2	-1-	-1-		55		3							
187																
188	(2)	INF	ORMA'	TION	FOR	SEO	ID I	NO:7	:							
189		(i		QUEN												
190		•) LEI												
191			•) TYI												
192			(C	-	RANDI				le							
193			•) ТОІ				_								
194			•	•										•		
195		(ii) MOI	LECUI	LE TY	YPE:	prof	tein								
196		•														
197		(xi) SE	QUENC	CE DE	ESCR	PTIC	on:	SEQ I	ID NO	0:7:					
198		•							_							
199	Met	His	Ser	Phe	Cys	Ala	Phe	Lys	Ala	Asp	Asp	Gly	His	Cys	Lys	Ala
200	1				² 5			-		10	-	-		-	15	
201																
202	Asn	His	Gln	Arg	Phe	Phe	Phe	Asn	Ile	Phe	Thr	Arg	Gln	Cys	Glu	Glu
203				20					25			_		30		
204																
205	Phe	Thr	Tyr	Gly	Gly	Cys	Gly	Gly	Asn	Gln	Asn	Arg	Phe	Glu	Ser	Leu
			-	-	_	-	-	-				_				

RAW SEQUENCE LISTING PATENT APPLICATION US/08/676,125A

DATE: 01/14/98 TIME: 11:53:04

														T.	12 U I	OLI.	344300.1
206			35					40					45				
207 208	@lu	Glu	Cvs	T.vg	T.ve	Mot	Cva	Thr	Ara	Man							
209	914	50	Cyb	шуы	בעם	Mec	55	1111	arg	ASP							
210																	
211	(2)	INF	ORMA'	TION	FOR	SEQ	ID 1	NO:8	:								
212		(i) SE	QUEN	CE CI	HARA	CTER	ISTI	CS:								
213			(A) LEI	NGTH	:58	amin	o ac	ids								
214			(B) TYI	PE: a	amin	o ac	id									
215								sing	le								
216			(D) TOI	POLO	3Y:	line	ar									
217																	
218		(11) MO	LECUI	LE T	YPE:	pro	tein									
219 220																	
220		/ w i	\ CF	או שו זר	ים חי	recp.	TDMT	ON.	SEV.	TD M	٠. ٥ .						
222		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:															
223	Met	His	Ser	Phe	Cvs	Δla	Phe	Lys	Δla	Δsn	Δsn	ดาง	His	Cvs	T.vs	Δla	
224	1				5	ALU	1 110	1 30	AIU	10	NOP	CLY	1110	Cys	15	ALG	
225	_				•												
226	Asn	His	Gln	Arq	Phe	Phe	Phe	Asn	Ile	Phe	Thr	Arq	Gln	Cvs	Glu	Gln	
227				20					25					30			
228																	
229	Phe	Thr	Tyr	Gly	Gly	Cys	Ala	Gly	Asn	Gln	Asn	Arg	Phe	Glu	Ser	Leu	
230			35					40					45				
231																	
232	Glu		Cys	Lys	Lys	Met	_	Thr	Arg	Asp							
233		50					55										
234																	
235	(2)							NO: 9									
236		(1	-			•		ISTIC									
237 238				•	PE: a			o ac:	las								
239								iu sing:	ما								
240					POLO												
241			(2	,	. 020												
242		(ii) MOI	LECUI	LE TY	PE:	pro	tein									
243		\	,				£										
244																	
245		(xi) SE(QUEN	CE DI	SCR	IPTI	ON: S	SEQ :	ID NO	0:9:						
246																	
247	Met	His	Ser	Phe	Cys	Ala	Phe	Lys	Ala	Asp	Asp	Gly	His	Cys	Lys	Ala	
248	1				5					10					15		
249									_				_				
250	Ser	Leu	Pro	_ = =	Phe	Phe	Phe	Asn		Phe	Thr	Arg	Gln		Glu	Glu	
251				20					25					30			
252																	
253	DI	- 1 -	m	43	~ 1	a	~ 1.	43 = .		~ 3			5 1-	a1	~ -	-	
254	rne	тте		СΤΆ	СΤΆ	cys	СΤÂ	Gly	asn	GIN	ASN	arg		GLU	ser	Leu	
255 256			35					40					45				
256 257	al.	@1 11	Cure	T. 17 C	T.ve	Me+	Cue	Thr	۵ra	Aen							
258	GIU	50	Cys	пуз	пур	Me C	55	1111	719	voħ							
250		50					33										

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/676,125A

DATE: 01/14/98 TIME: 11:53:18

INPUT SET: S22580.raw

Line

Error

Original Text